

## CLAIMS

1. An apparatus for sending a wireless audio signal from a transmitter to a  
5 receiver, allowing relatively unrestricted range of movement and placement of  
the receiver, comprising:

a signal generator;

at least one transmitting element operatively connected to said signal  
generator for transmitting infrared signals in a direction to reflect said signal

10 off of an object;

a receiver, said receiver, receiving said infrared signal; and

a listening means.

2. The apparatus of Claim 1, wherein said signal generator is an audio device.

3. The apparatus of Claim 2, wherein said audio device comprises any of:

a CD player, tuner, tape playing device and phonograph.

4. The apparatus of Claim 1, wherein said object comprises any of:

walls, ceilings, floors, furniture, wall hangings, fixtures, and living organisms.

5. The apparatus of Claim 1, wherein said transmitted signal is divergent.

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6. The apparatus of Claim 1, further comprising:

a signal diverging means.

7. The apparatus of Claim 6, wherein said signal diverging means is a plano-  
10 concave lens, said lens affixed to said transmitter to produce said divergent signal.

8. The apparatus of Claim 1, wherein said listening means comprises any of:

headphones and speakers.

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9. The apparatus of Claim 1, further comprising:

a signal converging means.

10. The apparatus of Claim 9, wherein said converging means is affixed to  
20 said receiver producing said convergent signal.

11. The apparatus of Claim 11, wherein said signal converging means comprises any of:

a plano-convex lens and a plano-concave lens.

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12. The apparatus of Claim 1, further comprising:

a first linear polarizer, said first linear polarizer affixed to said transmitter.

10 13. The apparatus of Claim 12, wherein said linear polarizer produces a signal which lies substantially in one plane.

14. The apparatus of Claim 12, wherein said first linear polarizer produces a signal that lies in planes over an angular range.

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15. The apparatus of Claim 12, further comprising:

a second linear polarizer, said second linear polarizer in alignment with said first linear polarizer and connected to a receiver.

16. The apparatus of Claim 15, wherein said second polarizer receives said signal over an angular range.

17. The apparatus of Claim 1, further comprising:

5           a filtering means, said filtering means in combination with said receiver, said filtering means capable of filtering out light that does not lie in the infrared spectrum.

18. The apparatus of Claim 17, wherein said filtering means comprises any of:

10           a coating and a computer.

19. The apparatus of Claim 18, wherein said computer receives said signal and electronically subtracts signal wavelengths not in the infrared spectrum.

15   20. The apparatus of Claim 1, further comprising:

          a parabolic deflector, said deflector designed to reflect an incoming signal toward a receiving portion of said receiver.

21. The apparatus of Claim 1, further comprising:

a counter-weight, said counter-weight integrated with said receiver so as to cause a receiving portion of said receiver to stay level.

22. The apparatus of Claim 1, wherein said signal contains data.

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23. The apparatus of Claim 22, further comprising:

a network card, said network card integrated with said receiver, said network card connected to computer and transmitting said data signal to said computer.

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24. An apparatus for providing a wireless means for transmitting a signal from a source to headphones or speakers, comprising:

an infrared transmitter which transmits an infrared signal;

a processing means which allows said signal to reflect off objects;

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a concave lens which diverges said infrared signal;

a converging means for converging said reflected signal;

a receiver which receives said reflected signal; and

a listening means for listening to said signal.

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25. A method for sending a wireless audio signal from a transmitter to a receiver, allowing relatively unrestricted range of movement and placement of the receiver, comprising the steps of:

generating a signal with a signal generating means;

5 transmitting a signal in a direction to reflect off of an object with at least one transmitting element operatively connected to said signal generating means;

receiving said infrared signal with a receiver; and

10 listening to said signal with a listening means.

26. The method of Claim 25, wherein said signal generator is an audio device.

27. The method of Claim 26, wherein said audio device comprises any of:

a CD player, tuner, tape playing device and phonograph.

15 28. The method of Claim 25, wherein said object comprises any of:

walls, ceilings, floors, furniture, wall hangings, fixtures, and living organisms.

20 29. The method of Claim 25, wherein said transmitted signal is divergent.

30. The method of Claim 25, further comprising the step of:

diverging said signal with a signal diverging means.

5 31. The method of Claim 30, wherein said signal diverging means is a plano-concave lens, said lens affixed to said transmitter to produce said divergent signal.

32. The method of Claim 25, wherein said listening means comprises any of:

10 headphones and speakers.

33. The method of Claim 25, further comprising the step of:

converging a signal with a signal converging means.

15 34. The method of Claim 33, wherein said converging means is affixed to said receiver producing said convergent signal.

35. The method of Claim 33, wherein said signal converging means comprises any of:

20 a plano-convex lens and a plano-concave lens.

36. The method of Claim 25, further comprising the step of:

polarizing said signal with a first linear polarizer, said first linear polarizer affixed to said transmitter.

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37. The method of Claim 36, wherein said linear polarizer produces a signal that lies substantially in one plane.

38. The method of Claim 36, wherein said first linear polarizer produces a signal that lies in planes over an angular range.

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39. The method of Claim 36, further comprising the step of:

filtering said signal with a second linear polarizer, said second linear polarizer in alignment with said first linear polarizer and connected to a receiver.

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40. The method of Claim 39, wherein said second polarizer receives said signal over an angular range.

20 41. The method of Claim 25, further comprising the step of:



filtering out light that does not lie in the infrared spectrum with a filtering means, said filtering means in combination with said receiver.

42. The method of Claim 41, wherein said filtering means comprises any of:

5 a coating and a computer.

43. The method of Claim 42, wherein said computer receives said signal and electronically subtracts signal wavelengths not in the infrared spectrum.

10 44. The method of Claim 25, further comprising the step of:

reflecting an incoming signal toward a receiving portion of said receiver with a parabolic deflector.

45. The method of Claim 25, further comprising the step of:

15 maintaining a constant receiver level with a counter-weight, said counter-weight integrated with said receiver.

46. The method of Claim 25, wherein said signal contains data.

20 47. The method of Claim 46, further comprising the step of:

transmitting said data signal with a network card, said network card integrated with said receiver, said network card connected to computer and transmitting said signal to said computer.

- 5 48. A method for providing a wireless means for transmitting a signal from a source to headphones or speakers, comprising the steps of:

transmitting infrared signal with an infrared transmitter;

processing said signal to reflect off objects;

diverging said infrared signal with a concave lens;

10 converging said reflected signal;

receiving said reflected signal with a receiver; and

listening to said signal.

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